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## 1 [Data base directions: the next steps](#)



John L. Berg

November 1976 **ACM SIGMOD Record**, **ACM SIGMIS Database**, Volume 8, 8 Issue 4, 1**Publisher:** ACM PressFull text available: [pdf\(9.95 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

**Keywords:** DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

## 2 [Probabilistic object bases](#)




Thomas Eiter, James J. Lu, Thomas Lukasiewicz, V. S. Subrahmanian

September 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 3**Publisher:** ACM PressFull text available: [pdf\(663.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although there are many applications where an object-oriented data model is a good way of representing and querying data, current object database systems are unable to handle objects whose attributes are uncertain. In this article, we extend previous work by Korn and Shimony to develop an algebra to handle object bases with uncertainty. We propose concepts of consistency for such object bases, together with an NP-completeness result, classes of probabilistic object bases for which consistency can be decided in polynomial time.

**Keywords:** Consistency, object-oriented database, probabilistic object algebra, probabilistic object base, probability, query language, query optimization

**3** From information requirements to DBTG-data structures

 J. A. Bubenko, S. Berild, E. Lindencrona-Ohlin, S. Nachmens  
 March 1976 **ACM SIGPLAN Notices , ACM SIGMOD Record , Proceedings of the 197 conference on Data : Abstraction, definition and structure**, Volume 11 ,  
 Issue SI , 2

**Publisher:** ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citi](#)  
[index terms](#)

The problem of determining, analysis and description of a particular application's information structure (and relations) and the process of mapping the information structure to a "good" data structure (in this case a DBTG-type structure) is considered. The applicability of a top-down oriented design procedure to a relatively large practical data base design case is demonstrated. A conceptual framework and a notation to be used for determining and definition of information requirements ...

**4** Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

 Thomas Haigh  
 January 2006 **ACM Oral History interviews**

**Publisher:** ACM Press

Full text available:  pdf(761.66 KB) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

**5** Special issue: AI in engineering

 D. Sriram, R. Joobhani  
 April 1985 **ACM SIGART Bulletin**, Issue 92

**Publisher:** ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

**6** The design and implementation of K: a high-level knowledge-base programming language of OSAM\*.KBMS

Yuh-Ming Shyy, Javier Arroyo, Stanley Y.W. Su, Herman Lam  
 August 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**  
 Volume 5 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(187.89 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The OSAM\*.KBMS is a knowledge-base management system, or the so-called next-generation



database management system, for non-traditional data/knowledge-intensive application: order to define, query, and manipulate a knowledge base, as well as to write codes to implement any application system, we have developed an object-oriented knowledge-based programming language called K to serve as the high-level interface of OSAM\*.KBMS. This paper presents the design of K, its implementation, and its supp ...


**Keywords:** Abstractions, Association patterns, Knowledge-base programming language, Object-oriented knowledge model, Structural associations

**7** On the architecture of a system integrating data base management and information retrieval

Horst Biller

May 1982 **Proceedings of the 5th annual ACM conference on Research and development in information retrieval SIGIR '82**

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(992.17 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


The data model, i.e. data structures and operations needed for a system integrating the management of formatted textual data (DBMIRS) are discussed. It is investigated how the data model fits into the ANSI-SPARC three schema architecture for data base management systems. The conclusion is that the DBMIRS should be regarded to be a new external data model. This would require only small changes to the concepts discussed so far for the conceptual and internal level. The advantages of this approach ...

**8** Special issue on user modeling: Tailoring object descriptions to a user's level of expertise

Cécile L. Paris

September 1988 **Computational Linguistics**, Volume 14 Issue 3

**Publisher:** MIT Press

Full text available:  pdf(1.63 MB)

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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


A question answering program providing access to a large amount of data will be most useful if it can tailor its answers to each individual user. In particular, a user's level of knowledge about the domain of discourse is an important factor in this tailoring if the answer provided to be both informative and understandable to the user. In this research, we address the question of how the user's domain knowledge can affect an answer. By studying texts, we found that the user's level of domain knowledge ...

**9** The theory of parsing, translation, and compiling

Alfred V. Aho, Jeffrey D. Ullman

January 1972 Book

**Publisher:** Prentice-Hall, Inc.

Full text available:  pdf(98.28 MB)

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**From volume 1 Preface (See Front Matter for full Preface)**

This book is intended for a one or two semester course in compiling theory at the senior graduate level. It is a theoretically oriented treatment of a practical subject. Our motivation for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts presented ...

**10** Session: database languages and models: The semantic data model: a modelling mechanism for data base applications



Michael Hammer, Dennis McLeod

May 1978 **Proceedings of the 1978 ACM SIGMOD international conference on management of data SIGMOD '78**

**Publisher:** ACM Press

Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Conventional data models are not satisfactory for modelling data base application systems. The features that they provide are too low level and representational to allow the semantics of a data base to be directly expressed in the schema. The semantic data model (SDM) has been designed as a natural application modelling mechanism that can capture and express the structure of an application environment. The features of the SDM correspond to the principal intensional structures naturally occurring ...

**Keywords:** data base management, data base modelling, data base user interfaces, data definition, data models, data semantics, information redundancy, logical data base design

**11** Semantic database modeling: survey, applications, and research issues



Richard Hull, Roger King

September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(5.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Most common database management systems represent information in a simple record-oriented format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data types arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial intelligence) ...

**12** Systems: Structure from anarchy: meta level representation of expert system propositions for natural language interfaces

Galina Datskovsky Moerdler

February 1988 **Proceedings of the second conference on Applied natural language processing**

**Publisher:** Association for Computational Linguistics

Full text available:  [pdf\(685.46](#)

[KB\)](#)  [Publisher](#) Additional Information: [full citation](#), [abstract](#), [references](#), [Site](#)

In this paper we describe a meta level representation used for mapping natural language input into propositions of an expert system. This representation is based on verb classes are structured hierarchically, with more general information encoded in the top level node and more specific information in the lower level nodes. Because of its structure, the representation is able to provide a detailed classification of the propositions, supplying a for defining semantics. It allows the sy ...

### 13 A survey of approaches to automatic schema matching

Erhard Rahm, Philip A. Bernstein

December 2001 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 10 Issue 4


**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(196.22 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approaches ...

**Keywords:** Graph matching, Machine learning, Model management, Schema integration, Schema matching

### 14 Version models for software configuration management

 Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remain a challenge. This article focuses on the version models underlying both commercial system research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we focus ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

### 15 Object orientation in multidatabase systems

 Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(4.85 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous

and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

**Keywords:** distributed objects, federated databases, integration, multidatabases, views

## 16 Federated database systems for managing distributed, heterogeneous, and autonomous databases

 Amit P. Sheth, James A. Larson  
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3  
**Publisher:** ACM Press

Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

## 17 The relational model for database management: version 2


E. F. Codd  
January 1990 Book  
**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(28.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

**From the Preface (See Front Matter for full Preface)**

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: first-order predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on the features of the relational model that I now perceive as important for database users, therefore for DBMS vendors. My perceptions result from 20 years ...

## 18 Data base design: Data description for computer-aided design

 Ann Ellis Bandurski, David K. Jefferson  
May 1975 **Proceedings of the 1975 ACM SIGMOD international conference on Management of data SIGMOD '75**  
**Publisher:** ACM Press

Full text available:  pdf(945.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Data Description Languages (DDLs) usually are discussed in terms of business data processing applications. This paper describes the importance of DDLs in computer-aided design (CAD). Users of CAD systems are compared with users of business data processing systems, and are shown to have radically different skills, view data in different ways, and

perform different operations upon data. Users of CAD systems are concerned not so much with frequent update or casual interrogation as with powerful and ...

## 19 Planning text for advisory dialogues: capturing intentional and rhetorical information

Johanna D. Moore, Cécile L. Paris

December 1993 **Computational Linguistics**, Volume 19 Issue 4

**Publisher:** MIT Press

Full text available:  pdf(3.22 MB)


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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


To participate in a dialogue a system must be capable of reasoning about its own previous utterances. Follow-up questions must be interpreted in the context of the ongoing conversation, and the system's previous contributions form part of this context. Furthermore, if a system is to be able to clarify misunderstood explanations or to elaborate on prior explanations, it must understand what it has conveyed in prior explanations. Previous approaches to generating multisentential texts have relied ...

## 20 XIRQL: An XML query language based on information retrieval concepts

 Norbert Fuhr, Kai Großjohann

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(281.91 KB)

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XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness in both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness ...

**Keywords:** Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

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**1** [Redundancy: Using free web storage for data backup](#)

Avishay Traeger, Nikolai Joukov, Josef Sipek, Erez Zadok

October 2006 **Proceedings of the second ACM workshop on Storage security and survivability StorageSS '06****Publisher:** ACM PressFull text available: [pdf\(205.78 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Backing up important data is crucial. A variety of causes can lead to data loss, such as d failures, administration errors, virus infiltration, theft, and physical damage to equipmen Users and businesses have important information that is difficult to replace, such as fina records and contacts. Reliable backups are crucial because some data cannot be replace while recreating other data can be expensive in terms of time and money. We propose t methods which leverage various types of ...

**Keywords:** backup, web services**2** [An overview of High Performance Fortran](#)

Charles Koelbel


December 1992 **ACM SIGPLAN Fortran Forum**, Volume 11 Issue 4**Publisher:** ACM PressFull text available: [pdf\(591.89 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citings](#), [index te](#)

Since its introduction over three decades ago, Fortran has been the language of choice f scientific programming for sequential computers. Exploiting the full capability of modern architectures, however, increasingly requires more information than ordinary Fortran 77 Fortran 90 programs provide. This information applies to such areas as&bull; Opportunit for parallel execution&bull; Type of available parallelism - MIMD, SIMD, or some combination&bull; Allocation of data among i ...


**3** [ERGO-Shell: a UNIX-interface for task preparation](#)

Wolfgang Dzida, Regine Freitag, Wilhelm Valder

March 1991 **Proceedings of the SIGCHI conference on Human factors in computing**

**systems: Reaching through technology CHI '91****Publisher:** ACM PressFull text available:  pdf(236.37 KB)Additional Information: [full citation](#), [index terms](#)**4** "A veritable bucket of facts" origins of the data base management system

Thomas Haigh


June 2006 **ACM SIGMOD Record**, Volume 35 Issue 2**Publisher:** ACM PressFull text available:  pdf(829.15 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The data base concept derives from early military on-line systems, and was not originally associated with the specific technologies of modern data base management systems. With the idea of an integrated data base, or "bucket of facts," spread into corporate data processing and management circles during the early 1960s, it was seldom realized in practice. File-processing packages were among the very first distributed as supported products, but only in the late 1960s were they first called "data ...

**5** The relational model for database management: version 2

E. F. Codd

January 1990 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.Full text available:  pdf(28.61 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)**From the Preface (See Front Matter for full Preface)**

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on the features of the relational model that I now perceive as important for database users, therefore for DBMS vendors. My perceptions result from 20 y ...

**6** IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker  
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

**Publisher:** ACM PressFull text available:  pdf(7.24 MB) Additional Information: [full citation](#), [citations](#)**7** Design methodology of boundary data structures

S. R. Ala

May 1991 **Proceedings of the first ACM symposium on Solid modeling foundations CAD/CAM applications SMA '91**

**Publisher:** ACM Press

Full text available:  pdf(916.49 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 8 Hierarchical data management



Jan M. Engel

September 1976 **Proceedings of the eighth international conference on APL APL '76**

**Publisher:** ACM Press

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)


An APL program has been developed for storing and maintaining relevant information about a group of persons linked together by a structured hierarchy. Functions that create, modify, and develop useful output from the data set are described with reference to a working example which further illustrates the approach used.

## 9 Web-based and Java-based simulation: VisualSLX: an open user shell for high-performance modeling and simulation

Thomas Wiedemann

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**

**Publisher:** Society for Computer Simulation International

Full text available:  pdf(222.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

SLX by Wolverine software is actually one of the fastest simulation languages. Besides the high performance the SLX-compiler can be extended very easily by user specific syntax and new basic functions. This "pyramid power" of SLX is used to build a new system for modeling and simulation --- VisualSLX. This system is a shell atop the standard SLX-compiler and the runtime system. All model and simulation data are stored in a universal database. VisualSLX could be used for a comfortable, rapid ...

## 10 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**  
Volume 4 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation of ...

**Keywords:** database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

## 11 Evaluation of two relational database management systems: UNIFY and iDB





Lindsay McDermid

May 1986 **ACM SIGSMALL/PC Notes**, Volume 12 Issue 2

**Publisher:** ACM Press

Full text available: pdf(3.41 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The following document is an evaluation and comparison of two relational database management systems: UNIFY and iDB. UNIFY Release 3.1 runs on the NCR Tower iDB release version of Mistress under iDIS Release 1.6 on the Intel 310.

**12** Herbert R. Grosch interview: March 30, 1971

Richard R. Mertz

August 1999 **Computer Oral History Collection**

**Publisher:** Smithsonian Institution Press

Full text available: [Publisher Site](#) Additional Information: [full citation](#)

**13** A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi  
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

**Publisher:** ACM Press

Full text available: pdf(3.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citation index terms](#), [review](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

**Keywords:** error/defect classification, security flaw, taxonomy

**14** General storage protection techniques: Securing distributed storage: challenges, techniques, and systems



Vishal Kher, Yongdae Kim

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

**Publisher:** ACM Press

Full text available: pdf(294.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid increase of sensitive data and the growing number of government regulations require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

**Keywords:** authorization, confidentiality, integrity, intrusion detection, privacy

## 15 Distributed operating systems


◆ Andrew S. Tanenbaum, Robbert Van Renesse  
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4  
**Publisher:** ACM Press

Full text available:  pdf(5.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

## 16 Selected IR-related dissertation abstracts

◆ Susanne M. Humphrey  
September 1989 **ACM SIGIR Forum**, Volume 24 Issue 1-2  
**Publisher:** ACM Press

Full text available:  pdf(3.70 MB) Additional Information: [full citation](#)

## 17 High performance Fortran language specification


◆ CORPORATE Rice University  
December 1993 **ACM SIGPLAN Fortran Forum**, Volume 12 Issue 4  
**Publisher:** ACM Press

Full text available:  pdf(5.69 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

(PART I) Fortran Forum is reprinting this High Performance Fortran Language Specification over several issues. The current issue is devoted to the first four chapters of the HPFF Language Specification. Remaining chapters of the HPFF Language Specification, and the HPFF Journal of Development, will be printed in installments in future issues of Fortran Forum.

## 18 System support for pervasive applications

◆ Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall  
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4  
**Publisher:** ACM Press


Full text available:  pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system

architecture for pervasive computing, called & ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

## 19 SW 2 - An object-based programming environment

 Mark R. Laff, Brent Hailpern


June 1983 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 18 , 20 Issue 6 , 7

**Publisher:** ACM Press

Full text available:  [pdf\(954.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Programming systems traditionally deal with only a few different types of data objects. Operating-system command languages, for example, are concerned with files and programs. Typical programming languages deal with computer-related objects such as integers, strings, arrays, and records. This is in sharp contrast to the variety of real-world objects that people reason about. Smallworld is a programming environment in which the real world is represented by objects that have ...

## 20 Accessing and storing data: Accessing sensor data using meta data: a virtual object buffer framework

 Arcot Rajasekar, Sifang Lu, Reagan Moore, Frank Vernon, John Orcutt, Kent Lindquist

August 2005 **Proceedings of the 2nd international workshop on Data management sensor networks DMSN '05**

**Publisher:** ACM Press

Full text available:  [pdf\(1.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the proliferation of sensors it is becoming increasingly difficult to discover and access sensor data of interest. Currently, most researchers and sensor data users access data from sensors that they build by themselves or from known sensor network run by their friends; rarely do they try to find sensor data of interest that are maintained by other users and groups. Even if they are able to find these data streams, accessing them is rather difficult because of login requirements in remote systems ...

**Keywords:** real-time data access, sensor networks, sensor virtualization, storage resource broker, virtual ring buffers

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